

1 What is claimed is:

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3 1. A method of reconciling data between a host device and a remote device connected to

4 the host device, the method comprising steps of:

5 commencing execution of an application on the remote device;

6 executing a synchronization instruction from the application; and

7 synchronizing data stored in the remote device with data stored in the host device.

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9 2. The method of claim 1, further comprising a step of establishing a communication

10 link between the host device and the remote device for synchronizing the data.

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12 3. The method of claim 1, further comprising steps of:

13 launching a first synchronization process on the remote device in response to the step

14 of executing a synchronization instruction; and

15 launching a second synchronization process on the host device in response to the step

16 of executing a synchronization instruction.

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18 4. The method of claim 3, wherein the step of synchronizing is performed by the first

19 synchronization process and the second synchronization process.

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21 5. The method of claim 4, wherein the step of executing a synchronization instruction

22 further comprises executing from the application a synchronization instruction having at least

23 one parameter.

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1 6. The method of claim 5, wherein the at least one parameter identifies data for
2 synchronization.

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4 7. The method of claim 6, wherein the identified data includes data stored in at least one
5 database in the remote device that is synchronized with data stored in an associated database
6 in the host device.

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8 8. The method of claim 5, wherein the at least one parameter includes a control
9 parameter identifying an application to perform a next instruction after executing the
10 synchronization instruction.

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12 9. The method of claim 5, wherein the step of executing a synchronization instruction
13 further comprises steps of:
14 extracting the at least one parameter from the synchronization instruction; and
15 storing the at least one parameter in memory in the remote device.

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17 10. The method of claim 9, wherein the step of executing a synchronization instruction
18 further comprises steps of:
19 retrieving the stored at least one parameter from the memory; and
20 executing from the application the synchronization instruction with the retrieved at
21 least one parameter.

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23 11. The method of claim 1, wherein the step of executing a synchronization instruction
24 from the application further comprises executing the synchronization instruction in response
25 to an event.

12. The method of claim 11, wherein the event comprises selecting a button or icon displayed by the application on the remote device.

13. The method of claim 11, wherein the event comprises selecting a menu item displayed by the application on the remote device.

14. The method of claim 11, wherein the event comprises one of selecting a form and closing a form displayed on the remote device.

15. A system comprising:
a remote device including at least one first database;
a host device connected to the remote device and including at least one second database, wherein the remote device is configured to execute a synchronization instruction for synchronizing the at least one first database and the at least one second database, and the synchronize instruction is executed from an application running on the remote device.

16. The system of claim 15, wherein the remote device further comprises:
a runtime engine executing the application; and
a memory storing a program file received from the host device, the program file including the synchronization instruction executed by the remote device.

17. The system of claim 16, wherein the runtime engine is configured to retrieve the synchronization instruction from the program file and execute the synchronization instruction.

1 18. The system of claim 17, wherein a first synchronization process is launched on the
2 remote device and a second synchronization process is launched on the host device for
3 synchronizing in response to the execution of the synchronization instruction.
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5 19. The system of claim 17, wherein the host device further comprises an integrated
6 design environment configured to generate the application and the program file, the
7 application and the program file being downloaded to the remote device from the host device
8 through a communication link.
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10 20. A data synchronization system comprising:

11 a host computer including an integrated design environment, a first plurality of
12 databases, and at least one application; wherein the host computer is configured to generate
13 the at least one application and a program file including instructions executed with the
14 application; and

15 a portable remote computer connected to the host computer, the portable remote
16 computer including a runtime engine, and a second plurality of databases; wherein the
17 portable computer is configured to receive the at least one application and program file from
18 the host computer, and the runtime engine is configured to execute the at least one application
19 and a synchronization instruction in the program file for synchronizing at least one database
20 in the second plurality of databases with at least one associated database from the first
21 plurality of databases.
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